

INDIAN ASSOCIATION FOR THE CULTIVATION OF SCIENCE
2A&B, Raja S.C. Mullick Road, Jadavpur, Kolkata-700032, India

Seminar Notice

Org. by

Theoretical Physics Department

Title:	Statistical Physics of Synchronization
Speaker:	Shamik Gupta, Department of Physics, RKMVU, Belur
Date:	July 23, 2018 (Monday)
Time:	4:00 p.m.
Venue:	Theoretical Physics Seminar Room (C406), 3rd Floor, Centenary Building, IACS
Abstract:	Spontaneous synchronization lies at the heart of many physical phenomena in nature. Even sustenance of life requires the heart to beat as a result of harmonized contractions of the cardiac cells in a synchronous wave. A highly non-linear cooperative effect, synchronization is observed in as diverse systems as yeast cell suspensions, flashing fireflies, pedestrians on footbridges, a variety of setups involving electrochemical and electronic oscillators, Josephson junctions, etc. In this lecture, we will discuss using tools of statistical physics the equilibrium and non-equilibrium aspects (both static and dynamical) of the phenomenon of synchronization.

All are cordially invited to attend the seminar